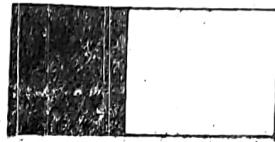


Do not  
write  
in this  
margin



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

**DO NOT WRITE YOUR SCHOOL/CENTRE NAME OR NUMBER ANYWHERE IN THIS BOOKLET**

Candidate's Name Moderated MTC ITEM 2024

Signature .....

Subject M.T.C. Paper code P1, 2024

Random No.			
Personal Number			

**READ THE INSTRUCTIONS BELOW  
CAREFULLY BEFORE USING  
THE ANSWER BOOKLET.**

1. Confirm that this answer booklet has 18 pages. Do not accept an answer booklet with missing pages.
2. Do not fold, dismantle, tear and/or mishandle any part of the answer booklet. Folding, dismantling, tearing and/or any other form of mishandling of the answer booklet is a malpractice and shall lead to cancellation of results. All work must be handed in.
3. Use a blue or black ink ball pen. Work in pencil, other than graphs, maps and drawings, will not be marked.
4. Answer only the number of questions as instructed on the question paper. Answers to extra questions will not be marked.
5. Write your answers on both sides of each sheet.
6. Do your rough work in this answer booklet. Cross through any work you do not want marked.
7. Do not share your work with another candidate or expose your work such that another candidate can copy from it. Sharing or exposing your work shall lead to cancellation of results.
8. List the question numbers in the order attempted, in the left-hand column of the boxes opposite. Do not list the multiple choice questions.
9. Check that you have written your name, signature, random number and personal number on each page of the answer booklet(s) used. Tie all the booklets used together.

Total		

Uganda Advanced Certificate of Education  
Answer Booklet

UGANDA NATIONAL EXAMINATIONS BOARD  
 UGANDA ADVANCED CERTIFICATE OF EDUCATION  
 NOVEMBER - DECEMBER, 2022

Page 2 of 16

Do not  
write  
in this  
margin

Candidate's Name MODERATED MTC ITEM 2024

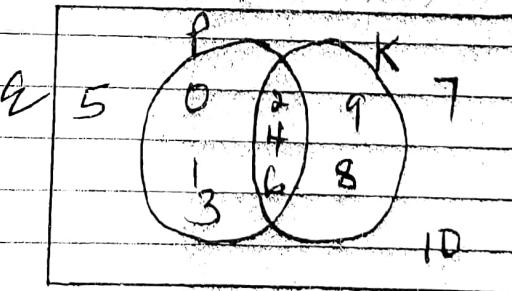
Signature .....

Random No.				
------------	--	--	--	--

Subject MTC Paper code O1/2024 Personal Number \_\_\_\_\_

SECTION A 40 MKS.

- 1 Work out  $30 \div 3$
- 2 Write 1001010 in words.
- 3 Use a ruler, a pair of compasses and a pencil to construct an angle of  $105^\circ$
- 4 If 5 pens cost sh. 30,000, calculate how many more pens will sh. 48000 buy at the same rate.
- 5 Use the venn diagram below to find  $n(P \cup K)$



- 6 Given that  $P = 6$  and  $R = 4$ , calculate the value of  $2R - \frac{1}{2}P$
- 7 Simplify  $4y - 5e - y - e$
- 8 Calculate the highest number of children that can share either 18 mangoes or 24 mangoes leaving no remainder.
- 9 Arrange  $\frac{2}{3}, \frac{1}{4}, \frac{1}{2}$  and  $\frac{3}{5}$  in decreasing order
- 10 On a map, the distance between two cities is 8cm. What is the scale of the map if the actual distance is 320m?

**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

Page 3 of 16

Do not  
write  
in this  
margin

BACK

Do not  
write  
in this  
margin

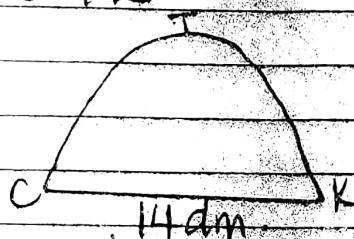
Candidate's Name Moderated MTC ITEM 2024

Signature .....

Subject MTC Paper code 01 /2024

Random No.			
Personal Number			

- 11 The distance round the given figure is 36 dm. Work out the length of the curved CTK

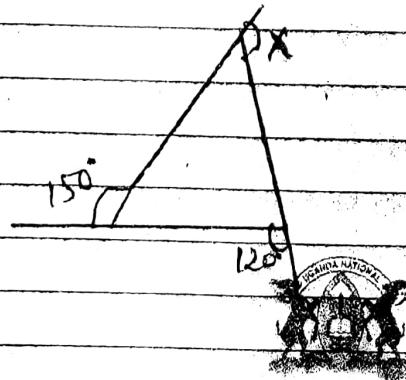


- 12 A boy sold three chicken at shs. 81000 making a profit of shs 21000. If the three chicken costs the same price calculate the price at which the boy bought the chicken.

- 13 A jet pilot flew at an average speed of 180km/hr from her home to the Berlin city and took 50 minutes. Find the distance she covered.

- 14 If two dice are rolled once, what is the probability of scoring a product of 20?

- 15 Calculate the value of  $x$  in the figure below.



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

Page 4 of 16

Do not  
write  
in this  
margin

Candidate's Name .....

Signature .....

Random No.			
Personal Number			

Subject ..... Paper code .....

Do  
not  
write  
in this  
margin

- 16 Subtract using a number line.  
 $+12 - +9$

- 17 Solve and find the solution set for

$$3x - 3 < 12.$$

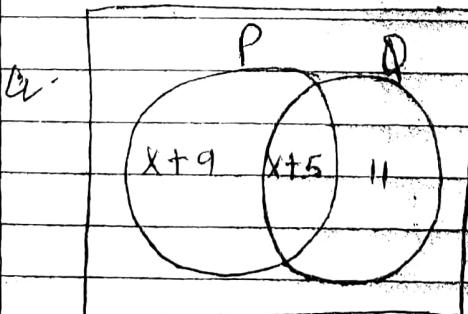
- 18 The size of each exterior angle of a regular polygon is  $(\frac{360}{x+2})^\circ$ . How many sides has the polygon?

- 19 How many Centimetres are in 0.75 metres?

- 20 It takes 10 days for three men to dig a pit latrine. If they are paid shs 75000 after completing the work. How much money will be paid to the bank by the end of that period?

**SECTION B: 60 MARKS**

- 21 Study the Venn diagram below, given that  $n(Q) = 24$



i) Find the value of x.

ii) Find the number of elements in

a) P

b)  $P \cup Q$

c)  $P \cap Q$



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

Page 3 of 16

UACE

Do not  
write  
In this  
margin

Candidate's Name MODERATED MTC ITEM 2024

Signature .....

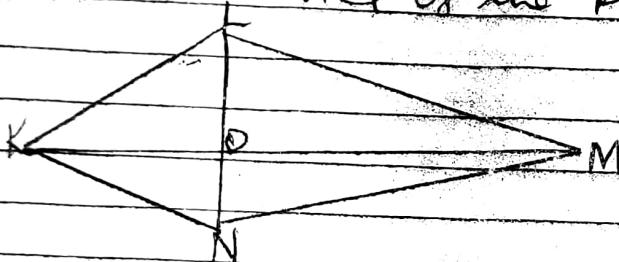
Subject MTC

Paper code 01 2024

Random No.		
Personal Number		

Do not  
write  
In this  
margin

22. The diagonals of the given kite measure 14cm and 22cm,  $KO = 8\text{cm}$ .
- (a) Find the length of  $OM$  and  $OL$ .
  - (b) Find the area of  $LMN$ .
  - (c) Find the area of the kite.



23. In a school of 2400 pupils,  $\frac{2}{3}$  are boys and the rest are girls. If  $\frac{2}{5}$  of the girls and  $\frac{5}{8}$  of the boys are boarders, how many pupils are boarders altogether?

24. Cheteli bought the following items from the supermarket:

Item	Quantity	Unit cost	Amount
Pineapples	4 pineapples	shs 5000 per every 2 pineapples	shs _____
Rice	— kg	shs 8000 per kg	shs 24000
Cooking oil	500ml	shs — per litre	shs 4000
Total expenditure shs —			

25. (a) Solve  $(8m+4) - (8m+2) = 14$   
 (b) Simplify  $9b + 4b + 3b - 2k$



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

Page 4 of 10

Do not  
write  
in this  
margin

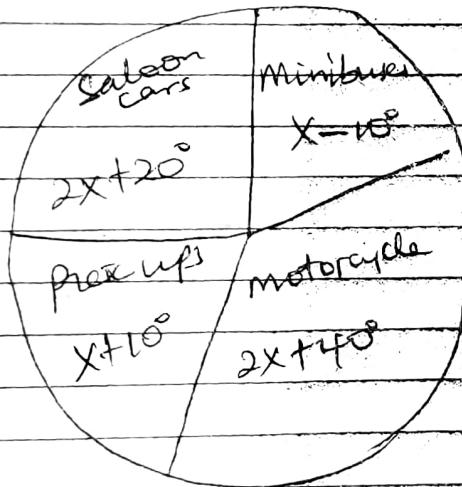
Candidate's Name .....

Signature .....

Random No.			
Personal Number			

Subject ..... Paper code .....

- 26 The pie chart below represents vehicles which were imported in the County in one month. Use it to answer the questions that follow.



(i) Find the value of  $x$ .

(ii) If the number of pick ups which were imported was 200. What was the total number of vehicles imported?

(iii) What percentage of the imported vehicles was saloon cars?

- 27 (a) Decrease Sh. 20000 in the ratio of 3:5

(b) The price of a radio was increased in the ratio of 7:5. what is the new price of the radio if the old price was sh. 20000?

- 28 Study the figure below and calculate the following.



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**NOVEMBER - DECEMBER, 2022**

Page 3 of 16

W  
EA  
R

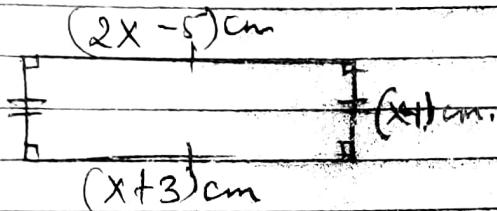
Do not  
write  
in this  
margin

Candidate's Name MICERATED MTC ITEM: 2024

Signature .....

Random No.			
Personal Number			

Subject MTC, Paper code P1 / 2024



(a) find the value of x

(b) Calculate the area of

the above shape.

29. Construct a rhombus RSTU where triangle RSU is an Equilateral triangle of side 5cm. Measure line SU.

30 Use the table below to answer the questions that follow:

Mark	40	70	90	60
No of pupils	4	3	1	2

(a) Find modal frequency

(b) Find the range

(c) Calculate mean

31 The sum of 3 consecutive even numbers is 54

(a) find the numbers.

(b) Work out their range.



UGANDA NATIONAL EXAMINATIONS BOARD  
UGANDA ADVANCED CERTIFICATE OF EDUCATION  
NOVEMBER - DECEMBER, 2022

Page 4 of 16

Do not  
write  
in this  
margin

Candidate's Name .....

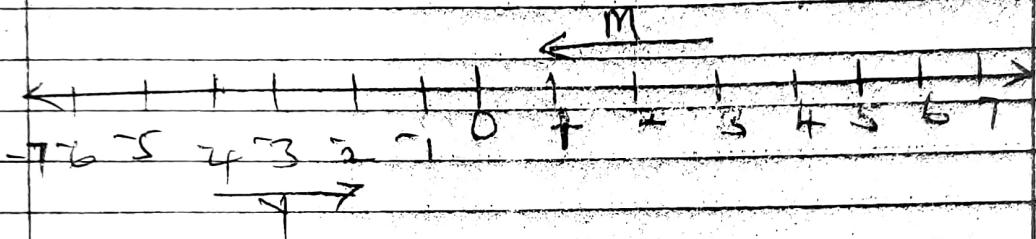
Signature .....

Subject ..... Paper code .....

Random No.			
Personal Number			

Do not  
write  
in this  
margin

32 Use the number line given below  
to answer questions that follow



(a) Write the additive inverse of the  
following lines

① 4

② M

(b)  $2 \times -17 =$

(c)  $76 \div -2 =$

(d)  $-2 - 4 =$

